

Application No.: 10/695,657
Amendment dated: August 4, 2005
Reply to Office Action of May 4, 2005
Attorney Docket No.: 21295.69

This listing of claims will replace all prior versions and listings of claims in this application:

b.) Listing of Claims

1. (Currently Amended) A comparison optical system comprising:
two macroscopes,
a bridge which couples the macroscopes mechanically and optically to one another,
an XYZ stage associated to with each microscope for placing a sample thereon,
an illumination system for specimens placed on the XYZ stage, and
an attachment device for the illumination system is connected to each
microscope, wherein each attachment device has ~~several~~ a plurality of movable arms
and an adjustable holder for a light source, and wherein at least one scale is
disposed on each movable arm.
2. (Currently Amended) The comparison optical system as defined in Claim
1, wherein each microscope encompasses a rotatable ring to which a first arm of
the plurality of movable arms is attached.
3. (Currently Amended) The comparison optical system as defined in Claim
2, wherein the rotatable ring is equipped with a scale and a locking screw
~~immobilizes~~ immobilizing the rotatable ring.
4. (Currently Amended) The comparison optical system as defined in Claim
2, wherein the first arm has an end, ~~at the end of the first arm,~~ opposite the
rotatable ring, and a first clamping apparatus is provided, in which guiding a
second arm, equipped with a scale, ~~is guided.~~

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5. (Currently Amended) The comparison optical system as defined in Claim 4, wherein a second clamping apparatus ~~there is provided~~ is disposed on the second arm, opposite the first clamping apparatus, ~~a second clamping apparatus~~ in which the second arm and a third arm are guidable perpendicular to one another; and a holder for an illumination system is mounted opposite the second clamping apparatus.

6. (Original) The comparison optical system as defined in Claim 5, wherein the holder is rotatable about an axis perpendicular to a rotation axis of the rotatable ring and perpendicular to the third arm.

7. (Original) The comparison optical system as defined in Claim 6, wherein the holder is equipped with a scale.

8. (Currently Amended) The comparison optical system as defined in Claim 1, wherein a personal computer PC, is associated with the comparison optical system.

9. (Currently Amended) The comparison optical system as defined in Claim 8, wherein in the personal computer PC ~~optimum~~ optimal illumination conditions established for the examination, which determined based on the values of at least one scale ~~various scales~~, are stored in a file and the values of at least one scale ~~the various scales~~ are retrieved together with the image data of the specimens to be compared.

10. (Currently Amended) The comparison optical system as defined in Claim 1, wherein the ~~light source~~ is constituted by the exit end of a light guide serves as

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~~the light source,~~ the light incidence onto the specimens being determined by the values ~~on the~~ of at least one scale on the attachment element.

11. (Currently Amended) The comparison optical system as defined in Claim 10, wherein the light source is connected to ~~the~~ a personal computer PC and receives control signals therefrom.

12. (Currently Amended) The comparison optical system as defined in Claim 1, wherein the positions of the XYZ stages, the intensity of the light source, and the position of a revolving nosepiece are stored in ~~the~~ a file provided in ~~the~~ a personal computer PC, and wherein those values are retrieved from the file in order to adjust one or two macroscopes ~~the microscope~~.